PROFICIENCY TESTING REPORT

ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME

NABL accredited program as per ISO/IEC 17043:2010 standard

Organized By Department of Hematology, AIIMS, New Delhi-110029

NABL Certificate No. PC - 1002

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 3650 **Distribution No.:** 151-J **Month/Year:** December/2020

Instrument ID: ERBA ELITE 580 (K110519122060)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 11-01-2021[Final].

CBC and Retic Assessment

Test Parameters	S.No.			Among Lab (Accuracy Testing)				Within Lab (Precision Testing)			
		Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10^3/µl	1	4.37	4.35	8.72	8.4	0.0310	**0.49**	0.02	0.1	0.0110	**-0.64**
RBC x10^6/µl	1	5.17	5.13	10.3	10.21	0.0160	**0.23**	0.04	0.04	0.0350	**0.00**
Hb g/dl	1	9.5	9.4	18.9	19	0.0310	**-0.17**	0.1	0.1	0.0080	**0.00**
HCT%	1	29.6	29.4	59	60.2	0.1690	**-0.31**	0.2	0.3	0.0330	**-0.22**
MCV-fl	1	57.4	57.2	114.6	118.4	0.2120	**-0.82**	0.2	0.3	0.0270	**-0.22**
MCH-Pg	1	18.3	18.2	36.5	37.4	0.0680	**-0.52**	0.1	0.2	0.0120	**-0.67**
MCHC-g/dl	1	31.9	31.9	63.8	63.5	0.1590	**0.09**	0	0.3	0.0260	**-0.67**
Plt. x10^3/µl	1	218	212	430	417.5	2.09	**0.25**	6	8.5	0.65	**-0.26**
Retic %	2	13.2	12.2	25.4	17.4	0.41	**0.85**	1	0.6	0.05	**0.77**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=01/100 WBC , Poly=04 L=06, E=00, Mono/Promono=04 , B1=86 P.M.=00, Mye=00, Meta=00, Other=00	Blasts: 70-80, Lymph: 5-15, Poly: 2-5, nRBC/Eo/Mono/Pro/My/Meta: 0-5
RBC Morphology	3	Nc/Nc	Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Microcytic.
Diagnosis	3	ACUTE LEUKEMIA	Acute Leukemia (Lymphoblastic).

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COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
				Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC x10^3/µl	1	350	224	82.59	80.8	3.13	4.02	13.84	14.29
RBC x10^6/µl	1	350	224	88.39	89.29	4.02	3.57	6.7	6.25
Hb g/dl	1	350	224	82.59	91.07	6.7	3.57	10.27	4.91
HCT%	1	350	224	89.29	89.73	5.8	2.23	4.02	7.14
MCV-fl	1	350	224	87.05	90.18	6.7	4.02	5.36	4.91
MCH-Pg	1	350	224	86.61	85.27	7.14	4.46	5.36	9.38
MCHC-g/dl	1	350	224	88.39	87.05	8.48	6.25	2.23	5.8
Plt. x10^3/µl	1	350	224	93.3	93.3	3.57	3.13	2.23	3.13
ReticCount%	2	350	199	93.97	81.91	4.52	16.08	1.51	4.02
PS Assessment	3	350	209	Acceptable:81.9%,Warning Signal:8.6%,Unacceptable :9.5%					

***Comments:**

1). Among Lab (EQA) : Results acceptable.

2). Within Lab (IQA) : Precision acceptable.

Note-1: EQA (External Quality Assurance) : Your Performance among various of participating labs in PT, to determine the accuracy of your results.
IQA (Internal Quality Assurance) : Your Performance of comparison of two consecutive measurement values within your lab to test the precision of your autoanalyzer.

Note-2: Z score among & within lab were calculated, as per to ISO/IEC 13528:2015 standard. Z score among lab (EQA)= (Your Result Sum of two values – Consensus Result sum of two values)/(Normalised IQR)
Z score within lab (IQA)= (Your Result Difference of two values – Consensus Result difference of two values)/(Normalised IQR)
IQR = Quartile 3 - Quartile 1 of participant data, Normalised IQR = 0.7413 x IQR

Note-3: Z score 0 to ±2: Acceptable, Z score ±2 to ±3 :Warning Signal, Z score > ±3 : Unacceptable [As per ISO/IEC 13528:2015 standard]

Note-4: Z score value between"0 to ±2" are texted in green colour. Z score value between"±2 to ±3" are texted in orange colour. Z score value > ±3 are texted in red colour.

Note-5: Homogeneity and stability testing of PT sample were done as per ISO 13528:2015 standard. To pass homogeneity test, between sample SD (Ss) should be smaller than the check value (0.3*SDPA). To pass the stability test, average difference in measurement values of first and last day sample ($\bar{x}$-$\bar{y}$) should be smaller than the check value (0.3*SDPA).

Note-6: ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

Note-7: Participants are free to use methods/analyzer of their own choice.

Note-8: Proficiency testing (PT) samples are sent quarterly to each participant.

Note-9: All the necessary details regarding design and implementation of PT, are provided in the instruction sheet as well as on programme's website www.ishtmaiimseqap.com.

Report authorized by,

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